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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Henry Martin Kyle, Stephen S.  
PenrodArt Unit : 2632  
Examiner : Unknown

Serial No. : 10/763,476

Filed : January 23, 2004

Title : DYNAMIC MAPPING TOOL

**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

In addition to the art cited on the PTO-1449 form, the applicant is aware of the prior art described below but does not have a publication describing certain features. Accordingly, the description of the prior art and the features is included herein.

More than one year before the filing date of the above referenced patent application, a software product, Autodesk OnSite 6.5, was commercially available from Autodesk, Inc. of San Rafael, California. The Autodesk OnSite 6.5 product included the following features.

1. A two-dimensional representation of three-dimensional geographic data could be displayed. A user could click on the two-dimensional representation (displayed on a computer monitor) using a mouse to select an initial location. A user could then click on the two-dimensional representation and drag the cursor to a final location. While dragging the cursor, a

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I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

August 1, 2005

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straight path between the initial location and the cursor was displayed. Once the user released the cursor, thereby selecting the final location, the straight path was replaced by a path representing the great circle path between the initial and the final location.

2. Once a user selected an initial and final location, the great circle distance between the two locations and a direction of the great circle path between the two locations was displayed.

3. The user could use grips (or control points) associated with either an endpoint at the initial or the final location to drag the endpoint to a new location. While the user dragged the initial or final endpoint to a new location, a path representing the great circle path between the moving endpoint (i.e., either the initial or final endpoint being dragged) and the stationary location (i.e., either the initial or final location not being dragged) was displayed and changed as the moving endpoint moved. Once the new initial or final location was selected, the new great circle distance and new direction of the great circle path between the two locations was displayed. The great circle distance and direction did not change as the moving endpoint was moving, but did update once a new final location was selected.

4. The user could select one or more additional locations, and once selected, a great circle path between successive locations was displayed. In a subsequent selection, if a user selected the initial location, i.e., selected the same location a second time to create a closed path, then a projected area within the great circle paths forming the boundary of the area was calculated and displayed. A total great circle distance, i.e., the great circle distance along the entire boundary, was displayed. If a user changed one or more of the locations, the total great circle distance and the area were updated once the new locations were selected; they did not change as the one or more locations were being changed.

5. Depending on the positions of the initial location and final location on the two-dimensional representation, a display of the great circle path extending from the initial location toward and terminating at the final location, could include the following. Displaying a first portion of the path, the first portion extending from the initial location to an outer boundary of the two-dimensional representation; displaying a second portion of the path, the second portion extending from an outer boundary of the two-dimensional representation to the final location; and displaying a graphical element linking the first portion of the path to the second

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portion of the path, where the first portion and the second portion together form the great circle path between the initial location and the final location. The graphical element linking the first and second portions was displayed as a broken (i.e., dashed) line.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits.

Brenda Leeds Binder has been given limited recognition under 37 CFR § 11.9(b) as an employee of the Fish & Richardson PC law firm to prepare and prosecute patent applications wherein the patent applicant is a client of Fish & Richardson PC and the attorney or agent of record in the applications is a registered practitioner who is a member of Fish & Richardson, which is the case in the present application.

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Respectfully submitted,

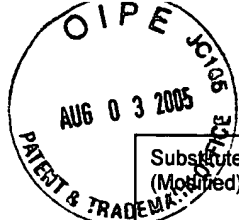
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 15786-002001	Application No. 10/763,476
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant <b>Henry Martin Kyle, Stephen S. Penrod</b>	
		Filing Date January 23, 2004	Group Art Unit 2632

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,625,565	09/23/2003	Alyassin, et al.			
	AB	3,994,456	11/30/1976	Post, et al.			
	AC	4,521,857	06/04/1985	Reynolds, III			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Agarwal, Panak K., et al., "Approximating Shortest Paths on a Convex Polytope in Three Dimensions," JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY, Vol. 44, No. 4, July 1997, pp. 567-584
	AR	Swartz, Karl L., "Great Circle Mapper," <a href="http://gc.kls2.com">http://gc.kls2.com</a> , © 1996-2003, downloaded 9/30/2003, 20 web pages
	AS	Autodesk®, "Autodesk® OnSite 6, Getting Started," May 2002, 66 pages
	AT	Autodesk®, "Welcome to Autodesk OnSite [Autodesk OnSite Help: authpub]," © 2002, 238 pgs.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	